

# Hoosier Businesses Embracing Solar Thermal

Presented by Mann Plumbing MPI Solar for Indiana  
Solar Energy Working Group

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# MPI Solar : where we've been, where we're going...

- The first half of 2010 was slow, and was spent cultivating leads  
And practicing perseverance and patience....
- Summer 2010 we started to reap some of the benefits and we found success in some new areas:
  - Solar attic fans
  - Solar pool heating
  - Small residential pv
- Fall brought us a bountiful harvest of solar work that will carry us through the Spring of 2011, thanks in large part to the Indiana Solar Thermal grant program

# Deer Park Solar Initiative – College Mall Apartments



SunEquinox system – 90 tube drain back system feeds a 132 gallon solar tank with a tankless back up for a 12 unit apartment in Bloomington





# Residential solar thermal



We installed these small residential systems, one for DHW, one for DHW and heat assist, in summer 2010. Biggest obstacle for homeowners is still the lack of meaningful incentives outside of Federal tax credit.

# Solar Thermal - air

- Solar air panel installed as first ever SIREN grant
- We are working with Monroe county SCCAP to install 5 SPF on low income homes as part of an ARRA grant
- Working with Bloomington Township





# Solar Pool Heating



9 solar pool panels circulate pool water to warm the pool and extend the owner's swimming season by a month on either end

# American Piano Factory – Solar Triple Play

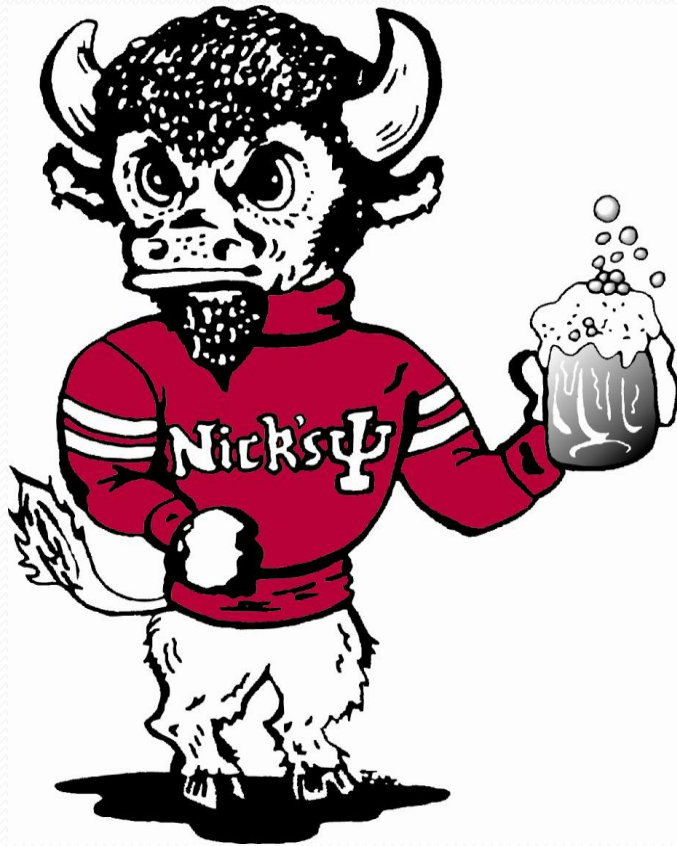
- 4.6 Kw pv system
- 30 tube solar thermal system for home DHW
- 2 solar attic fans



Rising electricity costs, 30% Treasury grant in lieu of credit and SREC sales convinced this Bloomington business to go solar in a big way



# Nick's English Hut – Solar Pub Crawl...?



- Nick's English Pub has been a favorite for IU students and alums for over 80 years!
- They will soon have a 6 panel 2-tank SunEquinox system to replace their old commercial water heater that failed on them
- Nick's will join the Upland as Bloomington's second solar powered watering hole, perhaps a Bloomington solar pub crawl will be



# Coming Soon...

- We've got some big jobs in the queue for 2011, funded in part by Indiana Solar Thermal program and the OED:
  - ***Shannon Glen Apartments, Evansville*** – 12 building affordable housing apartment complex will have 12 x 4 panel solar thermal systems for DHW
  - ***Wabash Valley Correctional Facility*** – will install a 15 panel drain back system for one of the inmate dormitories to supply DHW
  - ***Bloomingfoods East*** – This Bloomington co-op received a grant for a PV system in 2009, now they will have a 5 panel SunEquinox system for their high traffic east side store. We will conduct a solar thermal seminar as part of the grant education program
  - ***Bart Villa, part deux***: This apartment complex has a 16 panel solar thermal system already, and it's performing so well (over 41 Megawatt hours produced to date) that they wanted to put another system on a second building in the complex. This will be a 12 panel drain back system. We will be able to draw some comparisons between drain back and

# Solar wishes for 2011

- If we could have 3 wishes for the Indiana solar industry they would be...
  - More educational outreach and pr ! – we need to continue to work hard to dispel the **stubborn** myth that Indiana doesn't get enough sun !!!
  - Meaningful ongoing state, municipal or utility incentives for business and residential applications (like Ohio, Illinois, Michigan)
    - FIT
    - PACE program
  - Residential grant or rebate program for solar ( could be implemented like the energy

